

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

AUG 09 2005

In the Matter of:

PUBLIC SERVICE
COMMISSION

APPLICATION OF BIG SANDY RURAL)
ELECTRIC COOPERATIVE CORPORATION) CASE NO. 2005-00125
FOR AN ADJUSTMENT OF RATES)

NOTICE OF FILING AND CERTIFICATION OF SERVICE

I hereby give notice that I have filed the original and ten true copies of the Direct Testimony of David H. Brown Kinloch with the Executive Director of the Kentucky Public Service Commission at 211 Sower Boulevard, Frankfort, Kentucky, 40601 this the 9th day of August, 2005, and certify that this same day I have served the parties by mailing a true copy, postage prepaid, to the following:

BOBBY D SEXTON
PRESIDENT/GENERAL MANAGER
BIG SANDY RECC
504 11TH STREET
PAINTSVILLE KY 41240 1422

HONORABLE FRANK F CHUPPE
WYATT TARRANT AND COMBS LLP
500 WEST JEFFERSON STREET
SUITE 2800
LOUISVILLE KY 40202 2898

GARDNER F GILLESPIE ESQ
HOGAN AND HARTSON LLP
555 THIRTEENTH ST NW
WASHINGTON DC 20004 1109

;

[Signature]

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC SERVICE COMMISSION

AUGUST 2005

PUBLIC SERVICE
COMMISSION

CASE NO. 2005-00125

**ADJUSTMENT OF RATES OF
BIG SANDY RURAL ELECTRIC COOPERATIVE CORPORATION**

**TESTIMONY OF
DAVID H. BROWN KINLOCH**

On Behalf of
**THE OFFICE OF THE ATTORNEY GENERAL
FOR THE COMMONWEALTH OF KENTUCKY**

AUGUST 2005

1 COMMONWEALTH OF KENTUCKY

2 BEFORE THE PUBLIC SERVICE COMMISSION

* * * * *

4 In the Matter of:

1

10

11

11
12

12

13

TESTIMONY OF DAVID H. BROWN KINLOCH

13

14

14

16 A1: My name is David H Brown Kinloch and my busin

17 Associates, 414 S. Wenzel Street, Louisville, KY 40204.

18

19 Q2: FOR WHOM HAVE YOU PREPARED TESTIMONY?

20 A2: I have prepared this testimony for the Office of the Attorney General for the
21 Commonwealth of Kentucky.

22

23 Q3: PLEASE STATE YOUR EDUCATIONAL AND PROFESSIONAL
24 BACKGROUND

25 A3: I have received two master's degrees from Rensselaer Polytechnic Institute (RPI)
26 in Troy, New York. I also received two undergraduate degrees from the same

1 school. My master's degrees are a Master of Engineering in Mechanical
2 Engineering and a Master of Science in Science, Technology and Values,
3 received in 1979 and 1981 respectively. My undergraduate degrees are in
4 Mechanical Engineering and Philosophy. Much of my master's work included
5 preparing Electric Generation Planning studies for the Center for Technology
6 Assessment at Rensselaer. From this work I published two technical papers with
7 IEEE Power Generation Division, and was a contributing author on two others. I
8 also did work on New York State's first Energy Masterplan, one of the first
9 comprehensive long-term planning studies in the nation.

10

11 Q4: HAVE YOU PREVIOUSLY PRESENTED TESTIMONY BEFORE THIS
12 COMMISSION?

13 A4: Yes, I have testified in numerous cases before this Commission. These cases
14 include rate cases, Certificate of Convenience and Public Necessity cases,
15 generation expansion planning cases, and other cases related to regulated utilities.
16 A list of the cases in which I have presented testimony before this Commission is
17 contained in Exhibit DHBK-1.

18

19 Q5: WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS CASE?

20 A5: The Office of the Attorney General asked me to review the application to adjust
21 the rates filed by Big Sandy Rural Electric Cooperative Corporation (Big Sandy)
22 in this case. Specifically, I have reviewed the Cost of Service and Rate Design
23 portion of the application. In my testimony, I will point out problems with the

1 Big Sandy application in four specific areas: 1) the Cost of Service Study, 2) the
2 allocation of any rate increase to rate classes, 3) the proposed increase in
3 reconnection fees, and 4) the Late Payment fee charged by Big Sandy.

4

6 COST OF SERVICE STUDY

7

8 Q6: IN THIS CASE, BIG SANDY FILED AN UNBUNDLED COST OF SERVICE
9 STUDY. DO YOU SEE ANY PROBLEMS WITH THIS STUDY?

10 A6: Yes. I found four problems with the Cost of Service Study filed by Big Sandy.

11 First, I have serious concerns about how the Overhead Conductors were
12 divided into demand and customer components. Big Sandy used a Minimum Size
13 methodology based on the cost of the 4/0 ACSR conductor. The problem is that
14 the 4/0 ACSR is the third largest of the 15 conductors in the Big Sandy inventory.
15 Twelve of the fifteen conductors in the inventory are smaller than the conductor
16 used as the minimum size. The 4/0 ACSR conductor is far from the minimum
17 size and is thus a very unusual choice in a Minimum Size methodology.

When questioned in a data request as to why a Zero Intercept methodology (the methodology generally used by the Commission) was not used, Big Sandy responded that the data was scattered and resulted in low R-squared values. But the same problems with scattered and inconsistent data are present with the use of the Minimum Size methodology. Irregular data resulted in Big Sandy selecting

1 one of its largest conductors as its minimum size. Use of one of the largest
2 conductors to determine the system minimum size is simply not reasonable.

3 Given that irregularities with the data will cause problems no matter which
4 methodology is used and that the Minimum Size methodology, requires use of
5 one of the largest conductors as the minimum size to produce reasonable results, it
6 is much more reasonable to employ the Zero Intercept methodology. On page 1
7 of Exhibit DHBK-2, I have provided the amperage capacity for each of Big
8 Sandy's conductors and reorganized the conductors in order of amperage
9 capacity. On page 2 of Exhibit DHBK-2, I have plotted the conductors based on
10 amperage capacity and cost per foot. Then, I have had EXCEL automatically add
11 a linear trend line and associated formula based on these conductor data points.
12 This formula and graph shows that the Zero Intercept point is \$0.1882 per foot.

13 The next step is to include this Zero Intercept result into the Cost of
14 Service Study. As a starting point, I used the Cost of Service Study supplied by
15 Big Sandy in Exhibit R of its Application. By using the Big Sandy study as a
16 starting point, it provides the Commission an apples-to-apples comparison of
17 study results. My modified Cost of Service Study is attached to my testimony as
18 Exhibit DHBK-3. On page 15 of 18 of Exhibit DHBK-3, I have included the
19 Zero Intercept result in the calculation of the Consumer Related portion of
20 Conductors. These calculations show that 31.49% of the Conductors are
21 Consumer related, based on Zero Intercept methodology, while 68.51% are
22 Demand related.

23

1 Q7: WHAT IS THE SECOND PROBLEM YOU HAVE FOUND IN THE BIG
2 SANDY COST OF SERVICE STUDY?
3 A7: There was an error in the class non-coincident peak figures used by Big Sandy in
4 its Cost of Service Study. In some instances the coincident peaks for a given class
5 in a particular month, were higher than the corresponding non-coincident peaks.
6 By definition, the class non-coincident peak is greater than or equal to the
7 corresponding coincident peak for that month. When Big Sandy was questioned
8 about this problem in the Attorney General's First Data Request, Question 55, Big
9 Sandy stated that there were errors in the data used in the Cost of Service Study,
10 and provided the corrected non-coincident peak data. I have replaced the non-
11 coincident peak data in the Cost of Service Study with the corrected data on page
12 9 of 18 of Exhibit DHBK-3.

13
14 Q8: WHAT IS THE THIRD PROBLEM YOU FOUND IN BIG SANDY'S COST OF
15 SERVICE STUDY?

16 A8: There is a problem in how the allocator for Services was developed. Big Sandy
17 started with the cost of Services for each rate class from the Coop's Continuous
18 Property Records. These class figures were used to calculate the minimum
19 service cost based on an estimate of the minimum service length. The allocation
20 to each class was then made based on the cost of a minimum size Service for each
21 class.

22 The problem is that the Services allocator being developed will be used to
23 allocate all of the costs associated with Services, not just a minimum size Service.

1 Thus the complex allocation methodology Big Sandy uses based on minimum
2 size is unnecessary and inappropriate. The appropriate allocation is to simply
3 base the allocator on the amount of cost of Services associated with each class. I
4 have made this simple calculation on page 10 of 18 of Exhibit DHBK-3 where I
5 have taken the cost of Services for each class, based on the Continuous Property
6 Records, and divided it by the total cost to determine the percentage allocated to
7 each class. This method is more accurate than one based on just a minimum size
8 as it is based on all Services costs and the study is allocating all Service costs.

9

10 Q9: WHAT IS THE FINAL PROBLEM YOU FOUND WITH THE BIG SANDY
11 COST OF SERVICE STUDY?

12 A9: The final problem I found is associated with the construction of the Customer and
13 Accounting Services allocator. First, the cost of Meter Reading was allocated to
14 all 11,626 Residential customers (see Application Exhibit R, page 11 of 25),
15 despite the fact that Big Sandy's response to the Attorney General's Second Data
16 Request, Question 19, showed that only 1,356 residential customers had their
17 meters read by Big Sandy. The remaining 10,335 residential customers read their
18 own meters. As a result, Big Sandy allocated far too much of meter reading costs
19 to the Residential class.

20 Second, the weighting system used by Big Sandy included a class
21 weighting "Factor" of 1 and 2 for Meter Reading, a "Factor" of 1 and 0.25 for
22 Customer Assistance, but a "Factor" of 3 and 4 for Customer Records (see
23 Application Exhibit R, page 11 of 25). Because of this mismatch in class

1 “Factor”, Customer Records ended up being weighted far greater than the other
2 two cost categories. Consequently, while “Customer Records” only make up 67%
3 of these total costs, Big Sandy calculated 84% of “Combined Relative Weights”
4 to come from “Customer Records”. This demonstrates that there is an error in the
5 weighting scheme used by Big Sandy.

6 To correct both of these problems in the development of the Customer and
7 Accounting Services allocator, instead of combining class weighting factors and
8 dollar weighting factors, I allocated actual dollars for each of the three cost
9 categories (Meter Reading, Customer Assistance and Customer Records) directly
10 to each rate class. The dollars for each class for the three cost categories were
11 then combined. The combined costs for each class were then divided by total
12 dollars to produce allocators for the rate classes. This produces an allocator that
13 is much closer to actual costs than the complex weighting system used by Big
14 Sandy.

15

16 Q10: WHEN THESE FOUR CORRECTIONS ARE MADE TO THE COST OF
17 SERVICE STUDY, HOW DO YOUR CORRECTED RESULTS COMPARE TO
18 BIG SANDY'S RESULTS?

19 A10: The results of the corrected Cost of Service Study are presented on page 2 of 18
20 of Exhibit DHBK-3. These results can be compared to Big Sandy's results, which
21 can be found on page 2 of 25 of Exhibit R of the Coop's Application. The results
22 are presented as the TIER generated by each rate class. The results of the two
23 studies are compared in the table below:

1 **COST OF SERVICE STUDY TIER RESULTS**

2	<u>CLASS</u>	<u>BIG SANDY</u>	<u>AG (CORRECTED)</u>
3	RESIDENTIAL	(0.65)	(0.58)
4	COMMERCIAL	(0.38)	(2.03)
5	LARGE POWER – LP	6.75	6.48
6	LARGE POWER – LPR	6.21	8.36
7	SECURITY LIGHTS	0.47	1.37
8	TOTAL	0.50	0.50

9

10 Two significant changes result from making these corrections to the Cost
11 of Service Study. First, the Security Lights class goes from a class generating a
12 TIER below the overall Coop TIER of 0.50, to a class with a TIER significantly
13 above the overall (TOTAL) TIER. Second, the Commercial class moved from
14 having a slightly negative TIER to having a TIER that is significantly lower than
15 any other class.

16

17

18 **ALLOCATION OF ANY RATE INCREASE TO RATE CLASSES**

19

20 Q11: HOW DID BIG SANDY USE THE COST OF SERVICE STUDY TO
21 ALLOCATE THE PROPOSED RATE INCREASE TO THE RATE CLASSES?

22 A11: Big Sandy allocated the rate increase to the case classes on page 18 of 25 of
23 Exhibit R of the Application. On this page, the Security Lights class was given a

1 10% increase, then the rest of the increase was divided by the other two classes
2 with below average TIERs, the Residential and Commercial classes, on a basis of
3 Normalized Revenues.

4

5 Q12: DO YOU AGREE WITH THE ALLOCATION METHODOLOGY USED BY
6 BIG SANDY?

7 A12: No. While the class rate increase allocation methodology used by Big Sandy may
8 have made sense with the Big Sandy Cost of Service results, it is not appropriate
9 for the corrected study results. First, the corrected results indicate that the
10 Security Light class is producing a TIER significantly above the overall or total
11 TIER. Therefore, this class should be treated like the Large Power classes and
12 should not be assigned any part of the rate increase.

13 Second, with the Big Sandy allocation, revenues were the basis of dividing
14 the rate increase between the Residential and Commercial classes. This made
15 sense with the Big Sandy results, since the TIERs in the study were so close. But
16 when the Cost of Service Study is corrected, the TIER results of these two classes
17 are very different and merit a methodology that bring them more into line with
18 each other.

19

20 Q13: HOW DO YOU PROPOSE TO ALLOCATE THE PROPOSED RATE
21 INCREASE BETWEEN RATE CLASSES?

22 A13: First, the three classes that have TIERs above the overall TIER should not be
23 allocated any of the increase. The three classes are the two Large Power classes

1 and the Security Lighting class. This leaves the entire increase to be allocated to
2 the Residential and Commercial classes. Even after assuming the burden of the
3 entire increase, these two classes will have TIERs below those of the other classes
4 and the overall total Coop TIER.

5 The increase should be allocated to these two classes in such a way as to
6 bring the TIERs for these two classes in line with each other. On page 2 of 18 of
7 Exhibit DHBK-3, I have allocated the rate increase so as to equalize the TIER
8 earned by the Residential and Commercial classes. This results in about 80% of
9 the total increase being allocated to the Residential class and about 20% being
10 allocated to the Commercial class. The actual class rate allocations based on
11 these results are done on page 18 of 18 of Exhibit DHBK-3. Though the dollars
12 allocated on this page are based on the Big Sandy request, I am not endorsing the
13 size of the overall increase proposed by Big Sandy. I am only using the Big
14 Sandy overall rate figures to provide a comparison to page 18 of 25 of Exhibit R
15 in the Coop's application. I recommend that 80% of the increase, whatever that
16 finally proves to be, be allocated to the Residential class and 20% to the
17 Commercial class. No increase should be given to the other three classes.
18

19 Q14: HOW DO YOU PROPOSE TO DESIGN THE RATES FOR THE TWO RATE
20 CLASSES THAT WILL RECEIVE RATE INCREASES?

21 A14: For the Residential class, I concur with Big Sandy's judgment that the entire fee
22 should be assigned to the energy charge, with the monthly customer charge
23 remaining unchanged. With respect to the Commercial class, I agree with Big

1 Sandy that an increase in the monthly customer charge to \$15.00 per month is
2 reasonable and in line with what other utilities are charging. I also agree that the
3 remainder of the increase for the Commercial class should be assigned to the
4 energy charge and that the demand charge should be left unchanged. The
5 assignment guidelines are followed in the calculations in Exhibit DHBK-4, page 1
6 of 1.

7

8

9 **RECONNECTION FEES**

10

11 Q15: YOU ALSO STATED THAT YOUR TESTIMONY WOULD ADDRESS BIG
12 SANDY'S PROPOSED INCREASE IN RECONNECTION FEES. WHAT
13 PROBLEM DO YOU SEE WITH THE RECONNECTION FEES THAT HAVE
14 BEEN PROPOSED BY BIG SANDY?

15 A15: Big Sandy has four non-recurring charges for very similar services in the
16 Application's Exhibit 13, page 1 of 6, that are labeled as "Field Collection",
17 "Connect", "Reconnect" and "Overtime". Each of these services requires a trip to
18 the customer's premise to perform similar tasks. The difference between these
19 services in Exhibit 13 is the number of minutes required to perform the task
20 involved.

21 Basically, the "Reconnect" and "Overtime" are the same service;
22 reconnection after a disconnect for non-payment. The difference is that an

1 “Overtime” employee must be called-in after hours and must come from their
2 home, which adds extra time and an overtime wage rate.

3 What is confusing is why the “Field Collection” and “Connection”
4 services took 30 minutes, while the “Reconnection” took 45 minutes. In Big
5 Sandy’s response to the Attorney General’s Initial Data request, Question 42, the
6 explanation was that the seasonal “Connects” were made at the meter, while the
7 “Reconnect” after a disconnect for non-payment were made at the pole in order
8 to prevent tampering. But when asked how many disconnects for non-payment
9 were made at the meter and how many at the pole, in response to the Attorney
10 General’s Second Data Request, Question 18, Big Sandy stated that the “majority
11 of disconnects were made at the meter”. If a majority of these reconnects are at
12 the meter, then most of the time this service is identical to the “Connect” service,
13 and should take the same amount of time as the “Field Collection” and “Connect”
14 services.

15 Since these three services will take the same amount of time in the
16 majority of cases, in Exhibit DHBK-4, page 1 of 1, I have reduced the number of
17 minutes for “Reconnect” by 15 minutes to bring it in line with the “Field
18 Collection” and “Connect” services. And since the “Overtime” service is the
19 same as the “Reconnect,” though performed during overtime hours, I have also
20 reduced this service time by the same 15 minutes. The corrected results show that
21 a “Reconnect” fee of only \$30.00 is justified, to make it consistent with “Field
22 Collection” and “Connect” fees, and that a fee of \$45.00 is justified for

1 “Overtime” reconnects. Thus the Commission should limit the “Reconnect” and
2 “Overtime” reconnect fees to \$30.00 and \$45.00 respectively.

3

4 **LATE PAYMENT FEE**

5

6 Q16: BIG SANDY HAS NOT PROPOSED TO CHANGE ITS CURRENT LATE
7 PAYMENT FEE OF 10%. WHY DO YOU BELIEVE IT SHOULD BE
8 EXAMINED IN THIS CASE?

9 A16: While it is correct that Big Sandy has not proposed a change in its Late Payment
10 fee, I believe the excessive level of this fee deserves examination by the
11 Commission in this case. Big Sandy requires that payment be made within 15
12 days of receipt of the bill. If, for example, a member pays their bill a week after
13 that date, they will be assessed an additional 10%. Paying a 10% fee for being
14 just one week late is equivalent to paying a 520% annual interest rate.

15 The fee is excessive compared to what most other utilities are charging. In
16 Exhibit DHBK-5, page 1 of 1, I have listed the late payment fee being charged by
17 the distribution coops that are part of East Kentucky Power. It should be noted
18 that a large majority of the other East Kentucky Power coops, 11 of 15, charge
19 just 5%. Of the four others that still charge a 10% late fee, one of the Coops
20 mitigates the impact of the high fee with a \$5.00 cap. Big Sandy is in the
21 minority of those East Kentucky Power distribution coops still using an excessive
22 10% Late Payment fee.

1 In data requests, Big Sandy was asked to supply its rationale for charging
2 a 10% Late Payment fee instead of the more customary 5% fee. It could provide
3 no justification other than that this was the fee that has been charged for many
4 years. Just because an excessive fee has been charged in the past is not a
5 sufficient reason to continue to use it in the future. Since Big Sandy can offer no
6 reason or justification to charge such a high Late Payment fee, it would be
7 reasonable to bring this fee into line with the late payment fee of the majority of
8 the East Kentucky Power distribution coops. I recommend that the Commission
9 lower Big Sandy's Late Payment fee to a more reasonable and more customary
10 5% level.

11

12 Q17: DOES THIS CONCLUDE YOUR TESTIMONY?

13 A17: Yes it does.

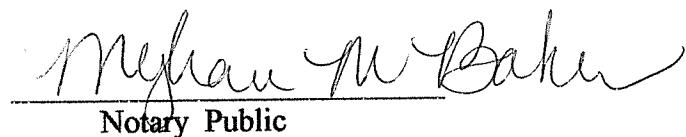
I, David H. Brown Kinloch, certify that the statements contained in the foregoing testimony are true and correct to the best of my knowledge, information, and belief.

Dated this 3rd day of August, 2005.



David H. Brown Kinloch

Affirmed to and subscribed
before me, this 3rd day
of August, 2005.


Meagan M. Baker

Notary Public

My Commission Expires: May 12th, 2009

Cases in which testimony has been presented by David Brown Kinloch:

Case No. -	Utility -	Case Type
9242 - Louisville Gas & Electric Co. - Trimble County 1 power plant		
9613 - Big Rivers Electric Corp. – Rate Case		
9824 – Louisville Gas & Electric Co. - Rate Case		
9934 - Louisville Gas & Electric Co. - Trimble County 1 power plant		
10064 – Louisville Gas & Electric Co . - Rate Case		
10320 - Louisville Gas & Electric Co. – 25% Disallowance of Trimble County 1 power plant		
90-158 – Louisville Gas & Electric Co. - Rate Case		
91-066 - Kentucky Power Co. – Rate Case		
91-115 - Kentucky Utilities - Certificate of Convenience and Necessity Case		
91-370 - Union Light Heat and Power Co. -- Rate Case		
92-112 - East Kentucky Power - Certificate of Convenience and Necessity Case		
92-219 - Clark RECC – Rate Case		
92-346 - Union Light Heat and Power Co. – Rate Case		
93-113 - Kentucky Utilities - Coal Litigation Refund Case		
93-150 - Louisville Gas and Electric Co. - Demand Side Management Case		
93-163 - Big Rivers - Sale of Peaking Capacity to Hoosier Energy		
93-465 - Kentucky Utilities - Environmental Surcharge Case		
94-332 - Louisville Gas and Electric Co. - Environmental Surcharge Case		
94-336 - East Kentucky Power Cooperative – Rate Case		
94-336 – Pass-through each of East Kentucky Power's Cooperatives		
95-010 - Western Kentucky Gas Co. – Rate Case		
96-489 - Kentucky Power Company - Environmental Surcharge Case		
96-523 - Kentucky Utilities - Fuel Adjustment Clause Case		
96-524 - Louisville Gas & Electric Co. - Fuel Adjustment Clause Case		
97-066 - Delta Natural Gas Co. – Rate Case		
97-204 - Big Rivers Electric Corp. – Rate Case		
97-209 - Meade County RECC – Rate Case		
97-219 - Green River EC – Rate Case		
97-220 - Henderson Union ECC – Rate Case		
97-224 - Jackson Purchase ECC – Rate Case		
97-300 - Louisville Gas and Electric and Kentucky Utilities - Merger Case		
98-321 - Licking Valley RECC – Rate Case		
2000-056 - East Kentucky Power - Certificate of Convenience and Necessity Case		
2000-079 - East Kentucky Power - Certificate of Convenience and Necessity Case		
2000-080 – Louisville Gas & Electric Co. - Rate Case		
2000-095 - LG&E Energy and PowerGen - Merger Case		
2000-426 - Union Light, Heat and Power Co. - Refund Case		

Case No. –	Utility -	Case Type
2001-053	- East Kentucky Power	- Certificate of Convenience and Necessity Case
2002-029	- LG&E and KU	- Certificate of Convenience and Necessity Case
2003-00030	- East Kentucky Power	- Certificate of Convenience and Necessity Case
2003-00052	- Union Light, Heat and Power Co.	- Generation Acquisition Case
2003-00165	- Kenergy Corp.	- Rate Case
2003-00433	- Louisville Gas & Electric Co.	- Rate Case
2003-00434	- Kentucky Utilities Co.	- Rate Case
2004-00067	- Delta Natural Gas Co.	- Rate Case
2004-00507	- Louisville Gas & Electric and Kentucky Utilities	- Trimble County 2 power plant
2005-00042	- Union Light, Heat and Power Company	-- Rate Case

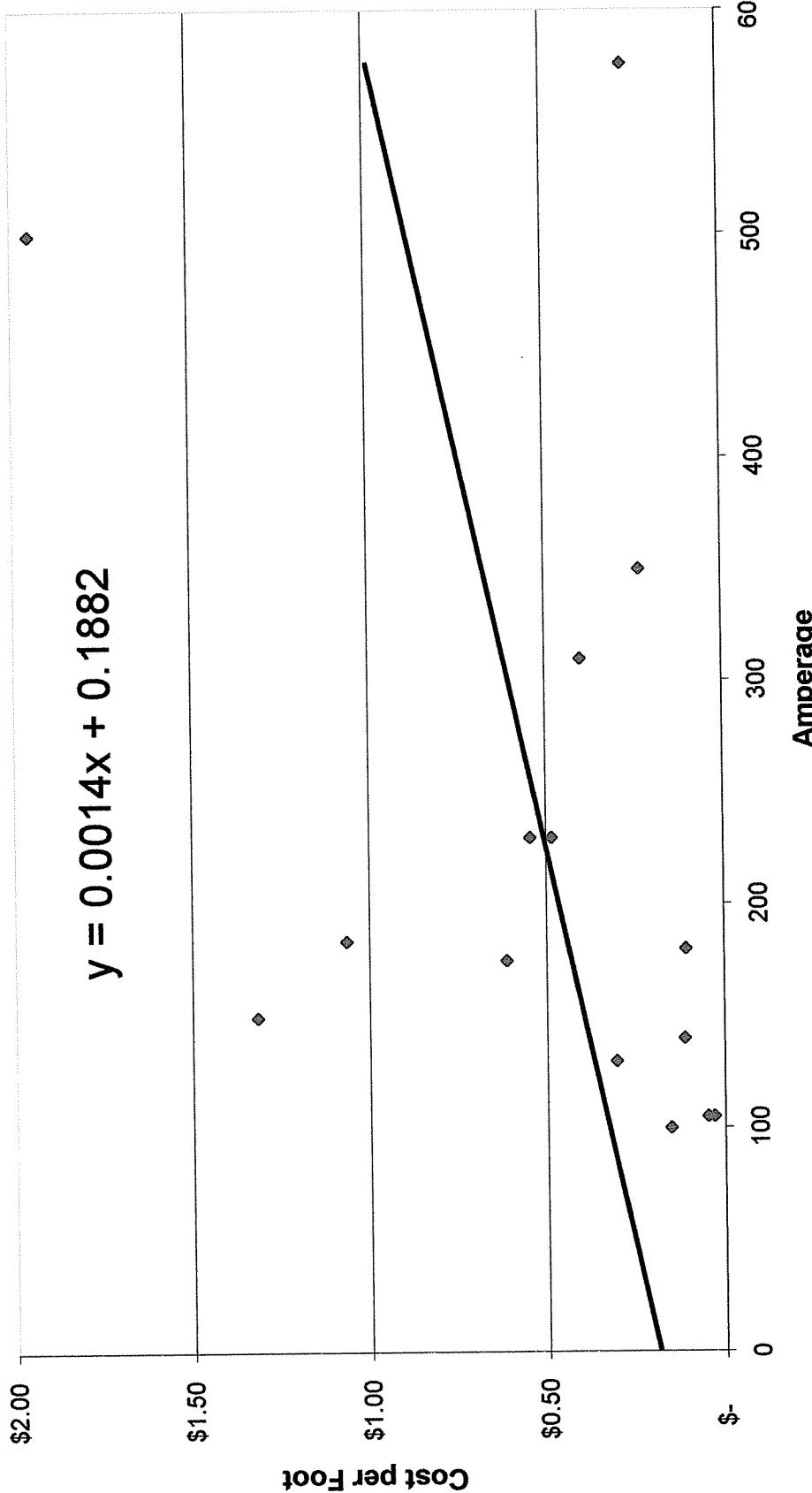
Account 365 - Overhead Conductor

Conductor	Investment of Units	Number of Units	Amperage	Unit Cost
8ACWC	158,638	1,042,223	100	\$0.1522
#6 HD copper	473	9,737	105	\$0.0485
#6 Steel	188	6,100	105	\$0.0308
4 ACSR	699,349	2,302,236	130	\$0.3038
6ACWC	305,475	2,732,160	140	\$0.1118
#3/0 Spacer Cable	229	174	150	\$1.3158
2 ACSR	1,737,206	2,827,797	175	\$0.6143
4ACWC	2,975	27,738	180	\$0.1073
#2-3 strand cop	20,762	19,507	184	\$1.0643
250MCM	35,721	73,864	230	\$0.4836
1/0 ACSR	1,329,706	2,441,503	230	\$0.5446
3/0 ACSR	773,037	1,934,046	310	\$0.3997
4/0 ACSR	68,079	294,113	350	\$0.2315
#336.4 ACSR	1,475,467	757,471	500	\$1.9479
#397 ACSR	8,504	31,857	576	\$0.2670

BIG SANDY CONDUCTOR COST

- ◆ Conductor Cost
- Linear (Conductor Cost)

$$y = 0.0014x + 0.1882$$



Case No. 2005-00125

Big Sandy RECC Rate Case

OFFICE OF THE ATTORNEY GENERAL

UNBUNDLED COST OF SERVICE STUDY

Test Year 2004

Prepared by: D. Brown Kinloch - August 2005

Office of the Attorney General

Case No. 2005-00125

Exhibit 1
 Schedule A
 1 of 1

Statement of Operations
Based on Expenses Category for each Rate Class

	Schedule A-1 Residential	Schedule A-2 Com& Smi/Pow	Schedule LP Large Power	Schedule LPR Large Pow Serv	Schedule YL-1 Security Lights	Total
Revenue	9,992,287	985,438	1,871,729	1,459,978	539,163	14,848,595
Purchased Power Costs	7,287,526	650,248	1,325,806	1,073,821	247,840	10,585,241
O&M	1,824,172	282,033	136,199	70,885	115,781	2,429,070
Admin & General	794,560	117,608	65,216	37,241	72,123	1,086,748
Depreciation & Misc.	738,320	95,897	87,121	55,848	87,943	1,065,129
Interest	422,198	54,837	49,819	31,936	50,289	609,079
Total Costs	11,066,776	1,200,624	1,664,160	1,269,731	573,976	15,775,267
Operating Margin	(1,074,489)	(215,186)	207,569	190,247	(34,813)	(926,672)
Other Income	441,618	57,360	52,110	33,405	52,602	637,095
Net Margins	(632,872)	(157,826)	259,679	223,652	17,789	(269,577)
TIER	(0.58)	(2.03)	6.48	8.36	1.37	0.50
Big Sandy Proposed Rate Increase	707,965	69,819	0	0	53,916	831,701
Proposed Net Margin	75,094	(88,006)	259,679	223,652	71,705	542,124
Big Sandy Proposed TIER	1.19	(0.69)	6.48	8.36	2.50	1.94
AG Proposed Rate Increase	80.5% 669,519	19.5% 162,182	0.0% 0	0.0% 0	0.0% 0	831,701
Proposed Net Margin	36,648	4,356	259,679	223,652	17,789	542,124
AG Proposed TIER	1.09	1.08	6.48	8.36	1.37	1.94

Office of the Attorney General

**Exhibit
Schedule B
1 of 2**

Case No. 2005-00125
Statement of Operations by Functional Classification

	Schedule A-1	Schedule A-2	Schedule LP	Schedule LPR	Schedule YL-1	Total
Residential	9,992,287	985,438	1,871,729	1,459,978	539,163	14,848,595
Revenue						
Wholesale Demand Costs						
Generation	1,568,454	168,970	250,373	174,637	22,615	2,185,049
Transmission	705,804	76,036	112,668	78,586	10,177	983,272
Distribution Substation	201,200	21,675	32,118	22,402	2,901	280,296
Total Wholesale Demand	2,475,458	266,681	395,159	275,625	35,694	3,448,617
Wholesale Energy Costs	4,812,069	383,567	930,647	798,196	212,147	7,136,624
Total Wholesale Costs	7,287,526	650,248	1,325,806	1,073,821	247,840	10,585,241
Gross Margin	2,704,761	335,190	545,923	386,157	291,323	4,263,354
Distribution Demand Costs						
Lines	970,869	143,902	225,150	153,527	40,788	1,534,236
Transformers	221,835	32,880	51,445	35,080	9,320	350,560
Total Distribution Demand	1,192,704	176,782	276,595	188,606	50,108	1,884,795
Distribution Consumer						
Lines	861,513	66,007	10,084	994	9,856	948,454
Transformers	41,770	5,641	1,369	1,820	248	50,848
Services	348,471	48,644	4,774	-	39,762	441,652
Meters	341,995	78,685	18,855	1,859	-	441,393
Consumer Services	992,797	174,617	26,677	2,630	46,870	1,243,591
Lighting					179,293	179,293
Total Distribution Consumer	2,586,546	373,594	61,759	7,303	276,028	3,305,231
Total Distribution Costs	3,779,250	550,376	338,355	195,910	326,136	5,190,026
Operating Margin	(1,074,489)	(215,186)	207,569	190,247	(34,813)	(926,672)
Other Revenue	441,618	57,360	52,110	33,405	52,602	637,095
Net Margin	(632,872)	(157,826)	259,679	223,652	17,789	(289,577)

Office of the Attorney General

Case No. 2005-00125

Unbundled Rate Base

Allocation of Revenue Requirements to Rate Classes

Office of the Attorney General
CASE NO. 2005-00125

Office of the Attorney General

CASE NO. 2005-JU-125

Allocation of Revenue Requirements to Rate Classes

**Office of the Attorney General
Case No. 2005-00125**

Demand Related Costs and Energy Related Costs Allocators

Exhibit II
Schedule A-1
1 of 3

A. Energy Sales		Allocation is proportional on actual sales to end use customers				
<u>Month</u>	<u>Residential</u>	<u>Schedule A-1</u>	<u>Schedule A-2</u>	<u>Schedule LP</u>	<u>Schedule LPR</u>	<u>Schedule YL</u>
			<u>Commercial & Small Power</u>	<u>Large Power Service</u>	<u>Large Power Rate</u>	<u>Security Lights</u>
January	22,665,138	1,299,076	2,901,360	2,807,760	623,998	30,297,332
February	18,296,603	1,270,640	2,975,256	2,667,320	623,241	25,833,060
March	15,466,895	1,133,448	2,624,592	2,619,340	626,449	22,470,724
April	11,229,249	979,059	2,484,923	2,456,800	627,289	17,777,320
May	11,124,389	1,164,586	2,883,292	2,577,480	626,786	18,376,533
June	12,136,235	1,181,843	2,747,820	2,220,940	627,886	18,914,724
July	13,868,159	1,163,083	2,824,540	1,984,800	631,449	20,472,031
August	12,322,886	1,151,104	2,924,073	2,222,600	633,499	19,254,162
September	10,438,974	1,093,048	2,775,421	2,165,940	631,684	17,105,067
October	10,261,701	951,434	2,489,651	2,203,460	638,496	16,544,742
November	13,712,272	1,159,992	2,965,789	2,328,680	636,906	20,803,639
December	20,096,887	1,132,345	2,594,205	2,212,020	638,400	26,673,857
Total	171,619,388	13,679,658	33,190,922	28,467,140	#REF!	254,523,191
Percent	67.43%	5.37%	13.04%	11.18%	2.97%	100.00%

Used to allocate purchased power energy costs to retail rate classes. Wholesale energy costs for rate classes LP1 And LP2 are directly assigned.

**Office of the Attorney General
Case No. 2005-00125**

Exhibit II
Schedule A-1
2 of 3

Demand Related Costs and Energy Related Costs Allocators

B. Wholesale Billing CP Contributions

Month	Schedule A-1 - Residential	Schedule A-2 Commercial & Small Power	Schedule LP Large Power Service	Schedule LPR Large Power Rate	Schedule YL Security Lights	Total
January	56,309	4,006	6,235	5,048	-	71,597
February	45,375	4,427	6,567	3,816	1,585	61,770
March	40,940	3,562	6,655	5,280	-	56,437
April	33,798	3,176	5,257	4,361	1,588	48,180
May	28,598	4,201	5,666	4,394	-	42,859
June	30,231	4,429	5,841	4,657	-	45,159
July	33,197	4,179	5,638	4,330	-	47,344
August	31,182	4,649	6,114	4,321	-	46,265
September	31,155	3,993	4,742	2,277	-	42,168
October	27,227	3,562	5,253	2,090	-	38,131
November	32,714	3,329	6,945	4,483	1,627	49,097
December	54,104	4,410	6,096	4,471	1,614	70,695
Total	444,831	47,922	71,009	49,529	6,414	619,704
Percent	71.78%	7.73%	11.46%	7.99%	1.04%	100.00%

Used to allocate wholesale power demand costs to rate classes. Wholesale power demand is billed on basis of CP demand.

**Office of the Attorney General
Case No. 2005-00125**

Demand Related Costs and Energy Related Costs Allocators

Exhibit II
Schedule A-1
3 of 3

C. Monthly Peak Demands for Each Rate Class

Month	Schedule A-1 - Residential	Schedule A-2 Commercial & Small Power	Schedule LP Large Power Service	Schedule LPR Large Power Rate	Schedule YL - Security Lights	Total
January	56,309	5,203	8,378	5,716	1,584	77,190
February	45,375	4,608	7,945	5,834	1,585	65,347
March	40,940	5,074	8,050	6,365	1,584	62,013
April	33,798	4,604	8,199	5,765	1,588	53,954
May	29,266	6,026	9,086	5,892	1,601	51,871
June	33,313	6,048	8,894	5,728	1,595	55,578
July	33,903	6,597	9,424	5,803	1,598	57,325
August	34,016	7,041	9,808	5,804	1,600	58,269
September	33,840	6,274	10,121	5,829	1,603	57,667
October	27,227	5,665	8,016	5,933	1,613	48,454
November	34,732	4,846	8,550	6,517	1,627	56,272
December	54,104	5,724	9,469	7,053	1,614	77,964
Total	456,823	67,710	105,940	72,239	19,192	721,904
Percent	63.28%	9.38%	14.68%	10.01%	2.66%	100.00%

Used to allocate distribution demand related costs to appropriate rate classes

Office of Attorney General

Exhibit II
 Schedule A-2
 1 of 2

Case No. 2005-00125

Consumer Related Costs Allocators

A. Lines (poles and conduit)

	<u>Number of Consumers</u>		<u>Allocation Percent</u>
Schedule A-1 - Residential	11,626		90.83%
Schedule A-2 - Commercial & Small Power	891		6.96%
Schedule LP - Large Power Service	136		1.06%
Schedule LPR - Large Power Rate	13		0.10%
Schedule YL - Security Lights	133		1.04%
	12,799		100.00%

B. Transformers

<u>Rate Class</u>	<u>Number of Consumers</u>	<u>Minimum Transformer Cost</u>	<u>Relative Cost</u>	<u>Weight</u>	<u>Allocation Percent</u>
Schedule A-1 - Residential	11,626	297.31	1.93	22,418.61	82.147%
Schedule A-2 - Commercial & Small Power	891	524.04	3.40	3,027.56	11.094%
Schedule LP - Large Power Service	136	832.42	5.40	734.72	2.692%
Schedule LPR - Large Power Rate	13	11,226.33	72.81	976.91	3.580%
Schedule YL - Security Lights	133	154.18	1.00	133.00	0.487%
	12,799			27,291	100%

C. Services

<u>Rate Class</u>	<u>CPR Cost</u>	<u>Allocation Percent</u>
Schedule A-1 - Residential	1,944,748	78.90%
Schedule A-2 - Commercial & Small Power	271,474	11.01%
Schedule LP - Large Power Service	26,645	1.08%
Schedule LPR - Large Power Rate	0	0.00%
Schedule YL - Security Lights	221,903	9.00%
	2,464,770	100%

D. Meters

<u>Rate Class</u>	<u># of Consumers</u>	<u>Minimum Meter Cost</u>	<u>Relative Cost</u>	<u>Weight</u>	<u>Allocation Percent</u>
Schedule A-1 - Residential	11,626	51.50	1.00	11,625.92	77.48%
Schedule A-2 - Commercial & Small Power	891	154.65	3.00	2,674.84	17.83%
Schedule LP - Large Power Service	136	242.57	4.71	640.97	4.27%
Schedule LPR - Large Power Rate	13	242.57	4.71	63.19	0.42%
Schedule YL - Security Lights				15,004.92	1.00

Office of Attorney General

Exhibit II
Schedule A-2
2 of 2

Case No. 2005-00125

E. Consumer & Accounting Services Consumer Related Costs Allocators

Rate Class	Meter Reading	Consumer Records	Customer Assistance	Total Consumer & Accounting Services	Allocation Percent
Schedule A-1 - Residential	56,280	388,684	76,184	521,148	79.83%
Schedule A-2 - Commercial & Small Power	73,940	11,885	5,837	91,661	14.04%
Schedule LP - Large Power Service	11,296	1,816	892	14,003	2.15%
Schedule LPR - Large Power Rate	1,114	179	88	1,381	0.21%
Schedule YL - Security Lights	-	12,412	12,192	24,603	3.77%
TOTAL	142,629	414,976	95,192	652,797	100.00%

Meter Reading			\$142,629	
Factor	# of Consumers	Weight	Weight Percent	Class Allocation
1.00	1,356	1,356	39.46%	56,280
2.00	891	1,782	51.84%	73,940
2.00	136	272	7.92%	11,296
2.00	13	27	0.78%	1,114
-	7,442	0	0.00%	0
		3,437	100.00%	142,629

Consumer Records			\$476,523	
Factor	# of Consumers	Weight	Weight Percent	Class Allocation
3.00	11,626	34,878	81.57%	388,684
4.00	891	3,563	8.33%	11,885
4.00	136	544	1.27%	1,816
4.00	13	54	0.13%	179
0.50	7,442	3,721	8.70%	12,412
		42,760	100.00%	414,976

Consumer Assistance			\$95,192	
Factor	# of Consumers	Weight	Weight Percent	Class Allocation
1.00	11,626	11,626	80.03%	76,184
1.00	891	891	6.13%	5,837
1.00	136	136	0.94%	892
1.00	13	13	0.09%	88
0.25	7,442	1,861	12.81%	12,192
		14,527	100.00%	95,192

Functionalization and Classification of Revenue Requirements

Exhibit DHBK – 3
Page 13 of 18

Office of the Attorney General

Case No. 2005-00125

Exhibit II
 Schedule B
 2 of 2

Functionalization and Classification of Revenue Requirements										Distribution			Consumer Services		Meters & Accounting Services		Consumer Services		SCHEDULE G		
Acct	Description	Allocation Basis	Actual \$\$\$\$	Adjusted \$\$\$\$	Pro Forma \$\$\$\$	Generation Energy Demand	Transmission Energy Demand	Substation Demand	Lines Customer Demand	Line Transformers Consumer Demand	Services	Meters Consumer	Consumer	Services	Meters Consumer	Consumer	Services	Meters Consumer	Consumer	Services	
926	Employ Penalties & Benefit		5,458	(391)	5,106																
928	Regulatory Exp		5,986	(425)	5,541																
929	Duplicate Charges		(841)	60	(781)																
930	Misc General Exp		270,781	(19,278)	251,503																
931	Rents		13,673	(973)	12,689																
935	Misc. General Plant		94,222	(6,708)	87,514																
Total Admin & General		Dist Plant	1,170,048	(83,300)	1,086,748																
403	Deprec. Distribution Plant	Net Plant	983,988	27261	1,011,249																
403	Deprec. General Plant	Net Plant	53,880		53,880																
Total Depreciation			1,037,868	27,261	1,065,129																
408.5	PSC Assessment	Rate Base	5,355.5	(5,356)	-																
426	Miscell. Income Deductions	Rate Base																			
Total Miscellaneous			5,356	(5,356)	-																
427.1	Interest - RUS Construc	Rate Base	96,004	9,303	105,307																
427.2	Interest - Other LTD	Rate Base	333,086	32,275	365,361																
427.3	Interest - FFB Notes	Rate Base	99,186	9,611	108,796																
Total Interest on LTD			528,275	51,189	579,484																
431	Other Interest Expense	Rate Base	29,615		29,615																
431.1	Other Interest - STL	Rate Base																			
Total Short Term Interest			29,615	-	29,615																
Total Costs			17,141,515	(1,366,246)	15,775,267	2,185,049	7,136,624	983,272	280,296	1,534,236	948,554	350,560	50,948	441,652	441,393	1,243,591	179,293				
Margin Requirements			528,275	51,189	579,484																
Total Revenue Requirements			17,669,790	(1,315,059)	16,354,731	2,185,049	7,136,624	983,272	280,296	1,752,653	1,083,478	428,882	62,209	504,526	466,992	1,259,211	211,540				
Less: Misc Income																					
450	CATV & Non-Recurring Chrgs	Rate Base	278,718		259,08	26,908															
451	Forfeited Discounts	Rate Base	103,023		103,023	278,718															
454	Misc Service Revenue	Rate Base	59,415		89,415	89,415															
456.1	Rent from Electric Prop.	Rate Base	55		55																
Total Misc Income			471,211	26,908	497,119	-	-	-	-	187,379	115,836	67,192	9,746	53,940	21,961	13,401	27,665				
419	Less: Other Income	Rate Base	100,134		100,134																
421	Interest Income	Rate Base	-6,347		(6,347)																
424	Gain on Disposition	Rate Base	46,189		46,189																
Total Other Income			139,976	-	139,976	-	-	-	-	52,761	32,617	18,920	2,744	15,188	6,184	3,773	7,780				
Revenue Requirements from Rates			17,056,603	(1,340,667)	15,717,937	2,185,049	7,136,624	983,272	280,296	1,512,613	935,025	342,770	49,718	1,242,037	176,086						

Office of the Attorney General

Exhibit II
 Schedule B-1
 1 of 3

Case No. 2005-00125

Determination of Certain Plant Investments as Demand Related or Consumer Related

Account 364 - Poles

Pole	Size	Investment	Number of Units	Unit Cost	Predicted Value
25.00	25.00	1,571,983	8,644.00	181.86	159.11
30.00	30.00	621,281	3,047.00	203.90	216.38
35.00	35.00	1,335,868	5,649.00	236.48	273.66
40.00	40.00	1,854,163	5,414.00	342.48	330.93
45.00	45.00	1,231,400	3,065.00	401.76	388.21
50.00	50.00	462,532	1,009.00	458.41	445.48
55.00	55.00	218,789	445.00	491.66	502.76
Subtotal		7,296,016	27,273.00		
Cross arms		562,786			
Anchors & Guys		1,909,098			
Other		67,767			
Total Investment		9,835,667	27,273.00		
X Variable - (Size)			11.46		
Zero Intercept			(127.27)		
R Square			0.97		
Minimum Intercept 25 ft pole			Use Predicted Value	159.11	
Number of poles				27,273.00	
Consumer Related Investment				4,339,376.89	
Total Investment				9,835,667.00	
Percent Customer Related				44.12%	
Percent Demand Related				55.88%	

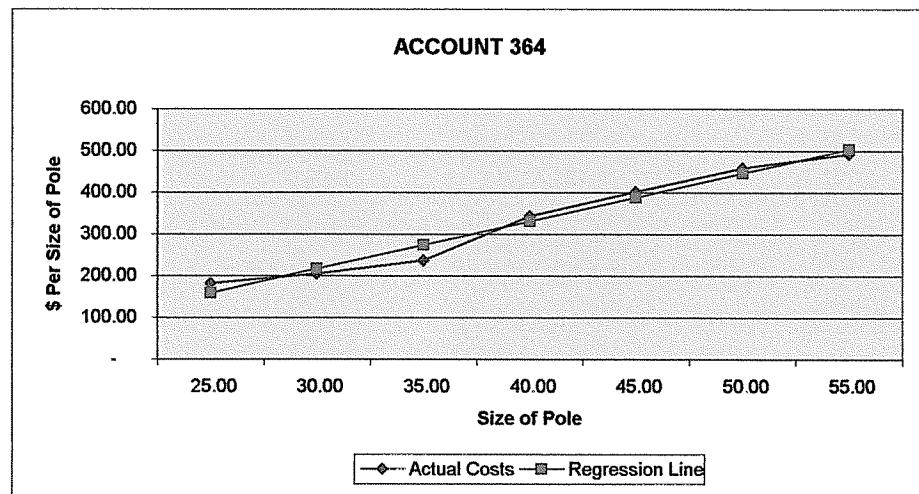
SUMMARY OUTPUT

Regression Statistics

Multiple R 0.985813
 R Square 0.971827
 Adjusted R Sq 0.966192
 Standard Error 23.07737
 Observations 7

Coefficients

Intercept -127.2669
 X Variable 1 11.45503



Office of the Attorney General

Exhibit II
 Schedule B-1
 2 of 3

Case No. 2005-00125

Determination of Certain Plant Investments as Demand Related or Consumer Related

Account 365 - Overhead Conductor

Conductor	Investment	Number of Units	Unit Cost
4ACWC	2,975	27,738	\$ 0.1073
6ACWC	305,475	2,732,160	\$ 0.1118
8ACWC	158,638	1,042,223	\$ 0.1522
1/0 ACSR	1,329,706	2,441,503	\$ 0.5446
3/0 ACSR	773,037	1,934,046	\$ 0.3997
4/0 ACSR	68,079	294,113	\$ 0.2315
2 ACSR	1,737,206	2,827,797	\$ 0.6143
4 ACSR	699,349	2,302,236	\$ 0.3038
#336.4 ACSR	1,475,467	757,471	\$ 1.9479
#2-3 strand c	20,762	19,507	\$ 1.0643
#6 HD coppe	473	9,737	\$ 0.0485
#6 Steel	188	6,100	\$ 0.0308
#3/0 Spacer (229	174	\$ 1.3158
250MCM	35,721	73,864	\$ 0.4836
#397 ACSR	8,504	31,857	\$ 0.2670
SUBTOTAL	6,615,807	14,500,526	
Arrestors	167,110		
Sect Bare & Inst COS	10,899		
OCRs	207,338		
Cutouts	253,079		
Insulator String	866,126		
Grounds	546,277		
TOTAL	8,666,635		

Zero Intercept Conductor	\$0.1882	per foot
Total Amount of Conductor in Feet	14,500,526	
	\$\$\$	
Zero Intercept Investment -Consumer Related	2,728,998.99	31.49%
Demand Related	5,937,636	68.51%
Investment In Conduit	8,666,635.33	100.00%

23

Breakdown of Lines into Demand Related and Consumer Related Components

	Total Investment	Percent Consumer	Amount Consumer	Percent Demand	Amount Demand
Conductor	8,666,635	31.49%	2,728,998.99	68.51%	5,937,636
Poles	9,835,667	44.12%	4,339,376.89	55.88%	5,496,290
	18,502,302		7,068,375.89		11,433,926
Percent			38.20%		61.80%

Office of the Attorney General

Exhibit II
 Schedule B-1
 3 of 3

Case No. 2005-00125

Determination of Certain Plant Investments as Demand Related or Consumer Related

Account 368-Transformers

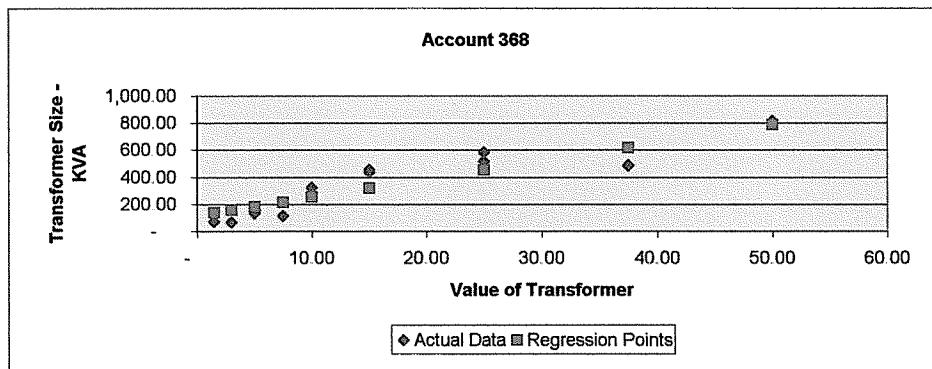
Pole	Size	Investment	Number of Units	Unit Cost	Predicted Value
1.5KVA CSP	1.50	9,490	132.00	71.89	135.07
3.5KVA CSP	3.00	12,470	185.00	67.41	155.20
5KVA CSP	5.00	46,993	359.00	130.90	182.05
7.5KVA CSP	7.50	910	8.00	113.75	215.60
10KVA CSP	10.00	916,459	3,238.00	283.03	249.15
15KVA CSP	15.00	1,179,543	2,587.00	455.95	316.26
25KVA CSP	25.00	990,472	1,694.00	584.69	450.47
37.5KVA CSP	37.50	5,336	11.00	485.09	618.24
Subtotal		3,161,673	8,214.00		
5 KVA	5.00	25,439	165.00	154.18	182.05
10 KVA	10.00	43,640	136.00	320.88	249.15
15 KVA	15.00	67,438	154.00	437.91	316.26
25 KVA	25.00	95,991	186.00	516.08	450.47
37.5 KVA	37.50	55,153	113.00	488.08	618.24
50 KVA	50.00	406,386	499.00	814.40	786.01
75KVA		47,659	46.00	1,036.07	
100KVA		75,781	57.00	1,329.49	
167 KVA		125,248	65.00	1,926.89	
225 KVA		3,572	1.00	3,572.00	
225, 300, & 333 KVA		66,906	23.00	2,908.96	
500 KVA		73,270	17.00	4,310.00	
833 - 1500 KVA		57,095	3.00	19,031.67	
Voltage Regulators		22,761			
Capacitors		26,266			
All Other Equipment		437,100	117.00		
Total Investment		4,791,378	9,679.00		
x Coefficient		13.4214			
Zero Intercept		114.9407			
R Square		0.8121			

Number of Transformers	9,679.00
Zero Intercept	114.94
Consumer Related Investment	1,112,510.96
Demand Related Investment	8,782,412.00
Percentage of Investment Consumer Related	12.67%
Percentage of Investment Demand Related	87.33%

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.901173
R Square	0.812112
Adjusted R Sq	0.796455
Standard Error	101.5985
Observations	14

Coefficients	
Intercept	114.9407
X Variable 1	13.42136



Big Sandy RECC

Case No. 2005-00125

Exhibit II
Schedule B-2
1 of 1

Exhibit DHBK – 3
Page 17 of 18

SCHEDULE I

Development of Net Investment Rate Base

Description	\$\$\$\$	Distribution Balances						Consumer & Accounting Services	Meters Consumer	Consumer Lighting	Outdoor Lighting	Street Ltg
		Demand	Lines	Customer	Line Transformers	Consumer	Demand					
360 Land & Land Rights	46,335	28,634	17,701	-	-	-	-	-	-	-	-	-
362 Station Equipment	-	-	-	-	-	-	-	-	-	-	-	-
364 Poles, Towers and Fixtures	9,835,866	6,078,178	3,757,498	3,310,887	-	-	-	-	-	-	-	-
365 Overhead Conductor	8,666,635	5,355,748	101,891	62,988	-	-	-	-	-	-	-	-
366 Underground Conduit	164,879	104,663	64,714	4,184,431	606,947	-	-	-	-	-	-	-
367 UG Conductor	169,397	-	-	-	-	-	-	-	-	-	-	-
368 Line Transformers	4,791,379	-	-	-	-	-	-	-	-	-	-	-
369 Services	3,359,128	-	-	-	-	-	-	-	-	-	-	-
370 Meiers	1,367,606	-	-	-	-	-	-	-	-	-	-	-
371 Install. On Consumer Prem.	1,722,841	-	-	-	-	-	-	-	-	-	-	-
373 Street Ltg & Signal Systems	-	-	-	-	-	-	-	-	-	-	-	-
Total Distribution Plant	30,123,866	11,669,133	7,213,779	4,184,431	606,947	-	-	3,359,128	1,367,606	-	-	1,722,841
	38.7%	23.9%	13.9%	2.0%	0.0%	0.0%	11.2%	4.5%	0.0%	5.7%	0.0%	-
Total General Plant	2,311,640	556,732	344,199	199,656	28,960	-	160,278	65,254	874,307	82,204	-	-
	24.1%	14.9%	8.6%	1.3%	0.0%	0.0%	6.9%	2.8%	37.8%	3.6%	0.0%	-
Total Utility Plant	32,435,506	12,225,915	7,557,978	4,384,088	635,907	-	3,519,406	1,432,860	874,307	1,805,044	-	-
Accum. Depreciation	8,656,553	3,262,915	2,017,112	1,170,048	169,714	-	939,277	382,409	233,340	481,739	-	-
Net Plant	23,778,953	8,963,001	5,540,866	3,214,040	466,193	-	2,580,129	1,050,451	640,987	1,323,305	-	-
	37.69%	23.30%	13.52%	1.96%	0.00%	0.00%	10.85%	4.42%	2.70%	5.57%	0.00%	-
CWIP	17,327	6,712	4,149	2,407	349	-	1,932	787	-	991	-	-
	23,796,280	8,969,713	5,545,016	3,216,447	466,542	-	2,582,061	1,051,238	640,987	1,324,296	-	-
Plus												
Cash Working Capital	449,118	169,286	104,651	60,704	8,805	-	48,731	19,840	12,106	24,994	-	-
Materials & Supplies	207,429	78,186	48,334	28,037	4,067	-	22,507	9,163	5,591	11,543	-	-
Prepayments	50,617	19,079	11,795	6,842	992	-	5,492	2,236	1,364	2,817	-	-
Minus: Consumer Advances	18,778	7,274	4,497	2,608	378	-	2,094	853	-	1,074	-	-
Net Investment Rate Base	24,484,666	9,228,990	5,705,299	3,309,421	480,028	-	2,656,698	1,081,625	660,029	1,362,576	-	-
Percentage	37.69%	23.30%	13.52%	1.96%	0.00%	0.00%	10.85%	4.42%	2.70%	5.57%	0.00%	-

Office of the Attorney General

Exhibit III

Case No. 2005-00125

Allocation of Increase in Revenue Requirements

A. Determination of Increase Amount for Specified Rate Classes

Revenue Requirements	<u>Schedule A-1</u>	<u>Schedule A-2</u>	<u>Schedule YL-1</u>
Normalized Revenue	\$ 9,992,287	\$ 985,438	\$ 539,163
Increase Amount	\$ 831,701		
Increase Schedule YL-1 by 0%			\$ 0.00
Increase Amount for Schedules A-1 & A-2	\$ 831,701		
Increase Amounts for Schedules A-1 & A-2	\$ 669,519	\$ 162,182	
Revenue Requirements	\$ 10,661,806	\$ 1,147,620	\$ 539,163

B. Rate Design - Schedules A-1 & A-2

	<u>Schedule A-1</u>	<u>Schedule A-2</u>	<u>Schedule YL-1</u>
New Customer Charge		15.00	
Billing Units		10,689	
Customer Charge Revenue	976,577	160,335	
Plus Demand Charge Revenue		237,236	
Revenue Required - Energy Rate	9,685,229	750,049	
Energy KWh	171,619,388	13,679,658	
Proposed Energy Rate	0.05643	0.05483	

C. Rate Design for Schedule YL-1

	<u>Rates</u>	
	<u>Current</u>	<u>Proposed</u>
175 Watt Lamp	\$ 5.66	\$ 5.66
400 Watt	\$ 7.85	\$ 7.85
500 Watt	\$ 8.86	\$ 8.86
1500 Watt	\$ 18.70	\$ 18.70

Meter Reading, Collection, Disconnect-Reconnect charge:

	<u>Meter Reading</u>	<u>Meter Tests</u>	<u>Field Collection</u>	<u>Connect</u>	<u>Reconnect</u>	<u>Overtime</u>
Number of minutes	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>75</u>
Serviceman:						
Regular time	\$24.51	12.26	12.26	12.26	12.26	
Over time	\$24.51					30.64
Direct wage per hr.	\$3.21	1.60	1.60	1.60	1.60	
Other cost based on labor	22.63%	2.77	2.77	2.77	2.77	2.77
Other direct cost per hr	\$9.04	4.52	4.52	4.52	4.52	4.52
Mileage 10 mi	\$0.365	3.65	3.65	3.65	3.65	3.65
Mileage 20 mi	\$0.365					7.30
Office clerical:						
Hours @ 1/4	\$17.00	4.25	4.25	4.25	4.25	4.25
Direct wage per hr.	\$2.22	0.56	0.56	0.56	0.56	0.56
Other cost based on labor	22.63%	0.96	0.96	0.96	0.96	0.96
Other direct cost per hr	\$9.04	2.26	2.26	2.26	2.26	2.26
Total		<u>32.83</u>	<u>32.83</u>	<u>32.83</u>	<u>32.83</u>	<u>48.74</u>

Proposed charge

<u>Number</u>	<u>Charges Existing</u>	<u>Charges Proposed</u>	<u>Revenue Existing</u>	<u>Revenue Proposed</u>	<u>Change</u>
Return check	632	15.00	20.00	9,480	12,640
Meter reading	868	25.00	30.00	21,700	26,040
Meter tests	3	15.00	30.00	45	90
Field collection	2,075	25.00	30.00	51,875	62,250
Connect	640	25.00	30.00	16,000	19,200
Reconnect	30	37.50	30.00	1,125	900
Overtime	14	47.50	45.00	665	630
Total			<u>100,890</u>	<u>121,750</u>	<u>20,860</u>
Proposed increase					<u>20,860</u>

Late Payment Charges of East Kentucky Power's Cooperatives

Big Sandy RECC	10 %
Blue Grass Energy CC	5 %
Clark Energy Coop	5 %
Cumberland Valley Electric	5 %
Farmers RECC	10 % - Maximum of \$5.00
Fleming-Mason Energy	5 %
Grayson RECC	10 %
Inter-County Energy	10 %
Jackson Energy CC	5 %
Licking Valley RECC	5 %
Nolin RECC	5 %
Owen Electric Coop	5 %
Salt River Electric CC	5 %
Shelby Energy Coop	10 %
South Kentucky RECC	5 %
Taylor County RECC	5 %